



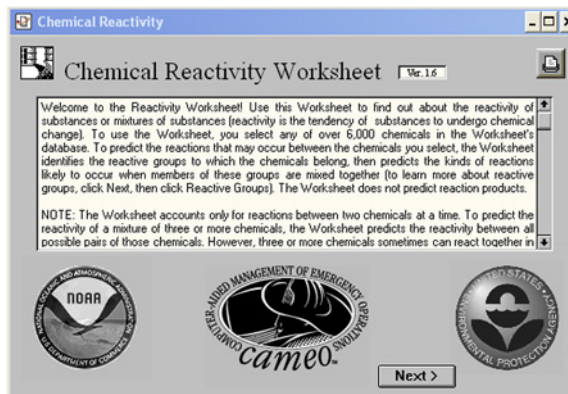
Chemical Reactivity Worksheet

The Chemical Reactivity Worksheet is a free software program you can use to find out about the reactivity of substances or mixtures of substances (reactivity is the tendency of substances to undergo chemical change).

It includes:

- A database of reactivity information for more than 6,000 common hazardous chemicals.
- A way for you to virtually "mix" chemical—like the chemicals in the derailed tank cars below—to find out what dangers could arise from accidental mixing.

The database includes information about the intrinsic hazards of each chemical and about whether a chemical reacts with air, water, or other materials. It also includes case histories on specific chemical incidents.



The latest version of the Worksheet is version 1.6, released on November 8, 2004.

To use the Worksheet, you select chemicals from its database, and add them to a "mixture." The Worksheet then predicts the hazardous consequences of mixing the materials.

You also can use the Worksheet to check any chemical's intrinsic reactive properties, such as peroxidizability, polymerizability, and radioactivity.

How the Worksheet Works

Each substance is assigned to one or more reactive groups, based on the known chemistry of that substance. Reactive groups are categories of chemicals that react in similar ways because they have similar chemical structure.

To predict the reactivity of a mixture of chemicals, the Worksheet first identifies the reactive groups to which the chemicals belong, and then predicts the kinds of chemical reactions likely to occur when members of these groups are mixed together.

For additional information on the Chemical Reactivity Worksheets, visit:

<http://response.restoration.noaa.gov/chemaids/react.html>, or call 206/526-6322.